

ZGI_MUZCUB5X2_3 ZGI_MUZCUB5X3_1 HUZCUB5X1_2	MGTGAGGPSVLALLFAVCAPLRLQAEELGDGCGHIVTSQDSGTMTSKNYPG MGTGAGGPSVLALLFAVCAPLRLQAEELGDGCGHIVTSQDSGTMTSKNYPG MVPGARGGGALARAAGRGLLALLLAVSAPLRLQAEELGDGCGHLVTYQDSGTMTSKNYPG
ZGI_MUZCUB5X2_3 ZGI_MUZCUB5X3_1 HUZCUB5X1_2	TYPNYTVCEKIITVPKGKRLILRLGDLNIESKTCASDYLLFSSATDQYGPYCGSWAVPKE TYPNYTVCEKIITVPKGKRLILRLGDLNIESKTCASDYLLFSSATDQY TYPNHTVCEKTITVPKGKRLILRLGDLDIESQTCASDYLLFTSSSDQYGPYCGSMTVPKE
ZGI_MUZCUB5X2_3 ZGI_MUZCUB5X3_1 HUZCUB5X1_2	LRLNSNEVTVLFKSGSHISGRGFLLTYASSDHPDLITCLERGSHYFEEKYSKFCPAGCRD
ZGI_MUZCUB5X2_3 ZGI_MUZCUB5X3_1 HUZCUB5X1_2	IAGDISGNTKDGYRDTSLLCKAAIHAGIITDELGGHINLLQSKGISHYEGLLANGVLSRH IAGDISGNTKDGYRDTSLLCKAAIHAGIITDELGGHINLLQSKGISHYEGLLANGVLSRH VAGDISGNMVDGYRDTSLLCKAAIHAGIIADELGGQISVLQRKGISRYEGILANGVLSRD
ZGI_MUZCUB5X2_3 ZGI_MUZCUB5X3_1 HUZCUB5X1_2	GSLSEKRFLFTT
ZGI_MUZCUB5X2_3 ZGI_MUZCUB5X3_1 HUZCUB5X1_2	SGDSSNNHKPREWLEIDLGEKKKITGIRTTGSTQSNFNFYVKSFVMNFKNNNSKWKTYKG
ZGI_MUZCUB5X2_3 ZGI_MUZCUB5X3_1 HUZCUB5X1_2	IVNNEEKVFQGNSNFRDPVQNNFIPPIVARYVRVVPQTWHQRIALKVELIGCQITQGNDS

Fig. 2A

3	3 RKRKKKGNPYVSADAQKTGCWKQIKYPFARHQSTEFTISYDNEKEMTQKLDLITSDMADY 1 RKRKKKGNPYVSADAQKTGCWKQIKYPFARHQSTEFTISYDNEKEMTQKLDLITSDMADY RKKKKKGSPYGSAEAQKTDCWKQIKYPFARHQSAEFTISYDNEKEMTQKLDLITSDMADY	3 QQPLMIGTGTVARKGSTFRPMDTDTEEVRVNTEASGHYDCPHRPGRHEYALPLTHSEPEY 1 QQPLMIGTGTVARKGSTFRPMDTDTEEVRVNTEASGHYDCPHRPGRHEYALPLTHSEPEY QQPLMIGTGTVTRKGSTFRPMDTDAEEAGVSTDAGGHYDCPQRAGRHEYALPLAPPEPEY	3 ATPIVERHLLRAHTFSTQSGYRVPGPRPTHKHSHSSGGFPPATGA-TQVESYQRPASPKP 1 ATPIVERHLLRAHTFSTQSGYRVPGPRPTHKHSHSSGGFPPATGA-TQVESYQRPASPKP ATPIVERHVLRAHTFSAQSGYRVPGPQPGHKHSLSSGGFSPVAGVGAQDGDYQRPHSAQP	3 VGGGYDKPAASSFLDSRDPASQSQMTS-GGDDGYSAPRNGLAPLNQTAMTALL (SEQ ID NO:4) 1 VGGGYDKPAASSFLDSRDPASQSQMTS-GGDDGYSAPRNGLAPLNQTAMTALL (SEQ ID NO:6) ADRGYDRPKAVSALATESGHPDSQKPPTHPGTSDSYSAPRDCLTPLNQTAMTALL (SEQ ID NO:2)
ZGI_MUZCUB5X2_3	ZGI_MUZCUB5X2_3	ZGI_MUZCUB5X2_3	ZGI_MUZCUB5X2_3	ZGI_MUZCUB5X2_3
ZGI_MUZCUB5X3_1	ZGI_MUZCUB5X3_1	ZGI_MUZCUB5X3_1	ZGI_MUZCUB5X3_1	ZGI_MUZCUB5X3_1
HUZCUB5X1_2	HUZCUB5X1_2	HUZCUB5X1_2	HUZCUB5X1_2	HUZCUB5X1_2

Cnymo						-	Trypsin	Chymo	CnBr	 VTYQDSGTMTSK
5	Chymo	NTCB	Chymo	Staph	Staph	Chymo	[rypsin]	Chymo	Progn	 /SAPLRLQAEELGDGCGHL
		Chymo	Chymo	Chymo	Chymo	Chymo	Trypsin Tr			
			-		Trypsin	ProEn	Chymo	CnBr 1		MVPGARC

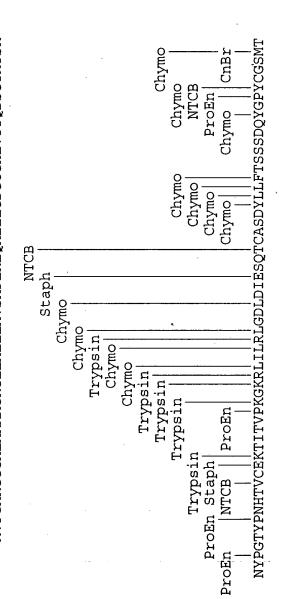


Fig. 3A

ProEn Chymo NTCB	Trypsin Chymo Chym	Staph	Trypsin	Chymo	Chymo	Trypsin	Chymo Staph	Chymo Chymo Chymo	· -	Chymo Chymo Chymo	in ProEn	
		Staph	Chymo	Trypsin	Staph	Chymo	Chymo	Chymo	Staph	Trypsin (ProEn Trypsin	

Trypsin	Chymo Chymo	NTCB Staph	Chymo Chymo	Trypsin Trypsin	Chymo Trypsin	Chymo Chymo Trypsin	CnBr Staph Chymo	
						rypsin Chy	NTCB CI	

Fig. 3B

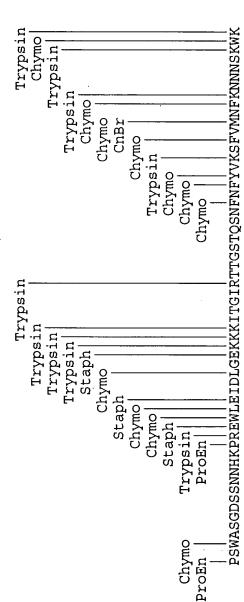


Fig. 3C

TYKGIVNNEEKVFQGNSNFRDPVQNNFIPPIVARYVRVVPQTWHQRIALKVELIGCQITQ NTCB Chymo Staph Trypsin Chymo | Trypsin Chymo ProEn Trypsin Chymo Trypsin ProEn ProEn Chymo ProEn pH2.5 Trypsin Chymo | Chymo Trypsin Staph | Staph | Trypsin Chymo

GNDSLVWRKTSQSTSVSTKKEDETITRPIPSEETSTGINITTVAIPLVLLVVLVFAGMGI Chymo CnBr Chymo СҺУТО Chymo Chymo Chymo ProEn Staph Staph ProEn ProEn Staph Staph Trypsin Trypsin Trypsin Trypsin | Chymo | Chymo

Fig. 3D

-				Сһуто	Chymo	Trypsin	Chymo	CnBr	Staph	Trypsin	Staph	Chymo	Chymo	Staph	ARHOSABETISYDNEKEMTOKI.DI.TTSD
	Chymo	UHOJA	Trypsin	Trypsin	Chymo Chymo	ProEn NTCB	Trypsin Trypsin		Trypsin	Trypsin	Trypsin	Trypsin	Chymo	Chymo	FAAFRKKKKKGSPYGSAEAOKTDCWKOIKYPFARHOSAEFTISYDNEKEMTOKI.DI.TTSD

ProEn ProEn	Chymo	Chymo	Staph	Trypsin					
		,		Tr	Trypsin	ProEn	NTCB	Chymo	 /STDAGGHYDCF
			Chymo	CnBr	En		Staph	Staph	 RPMDTDAEEAGN
			당	D	ProEn	Chymo	Trypsin	Trypsin	 GTGTVTRKGSTF
		Chymo	CnBr	Chymo	ProEn	Chymo	hymo	CnBr	

Fig. 3E

					,			ProEn	Chymo	 EPEYATPIVERHVLRAHTFSAQSGYRVPGPQPGHKHSLSSGGFSPVAGVGAQDGDYQRPH
			Om.				•	ProEn	Chymo	SLSSGGFSPVA
			Chymo	Trypsin	En					OPGHKH
0				Tr	ProEn	ProEn	ProEn	Trypsin	Chymo	FSAQSGYRVPGP
Chymo	in	<u></u> 2								 7LRAHT
	Trypsin	Сһуто	Trypsin	. Staph	ProEn	Сһуто	Staph	ProEn	Staph	 EPEYATPIVERHV

Ou	<u></u>			Chymo	Chymo	CnBr	 PLNOTAMTALL
Chymo	ProEn	Chymo	NTCB	Trypsin	ProEn	Chymo	 SAOPADRGYDRPKAVSALATESGHPDSOKPPTHPGTSDSYSAPRDCLTPLNOTAMTALL
				ProEn ProEn	ProEn	ProEn	HPDSOKPPTHP
		in		Pro	Staph	Chymo	PKAVSALATESC
		Trypsin Proen			Trypsin	ProEn	 SAOPADRGYDRI

Fig. 31